FIG. 1

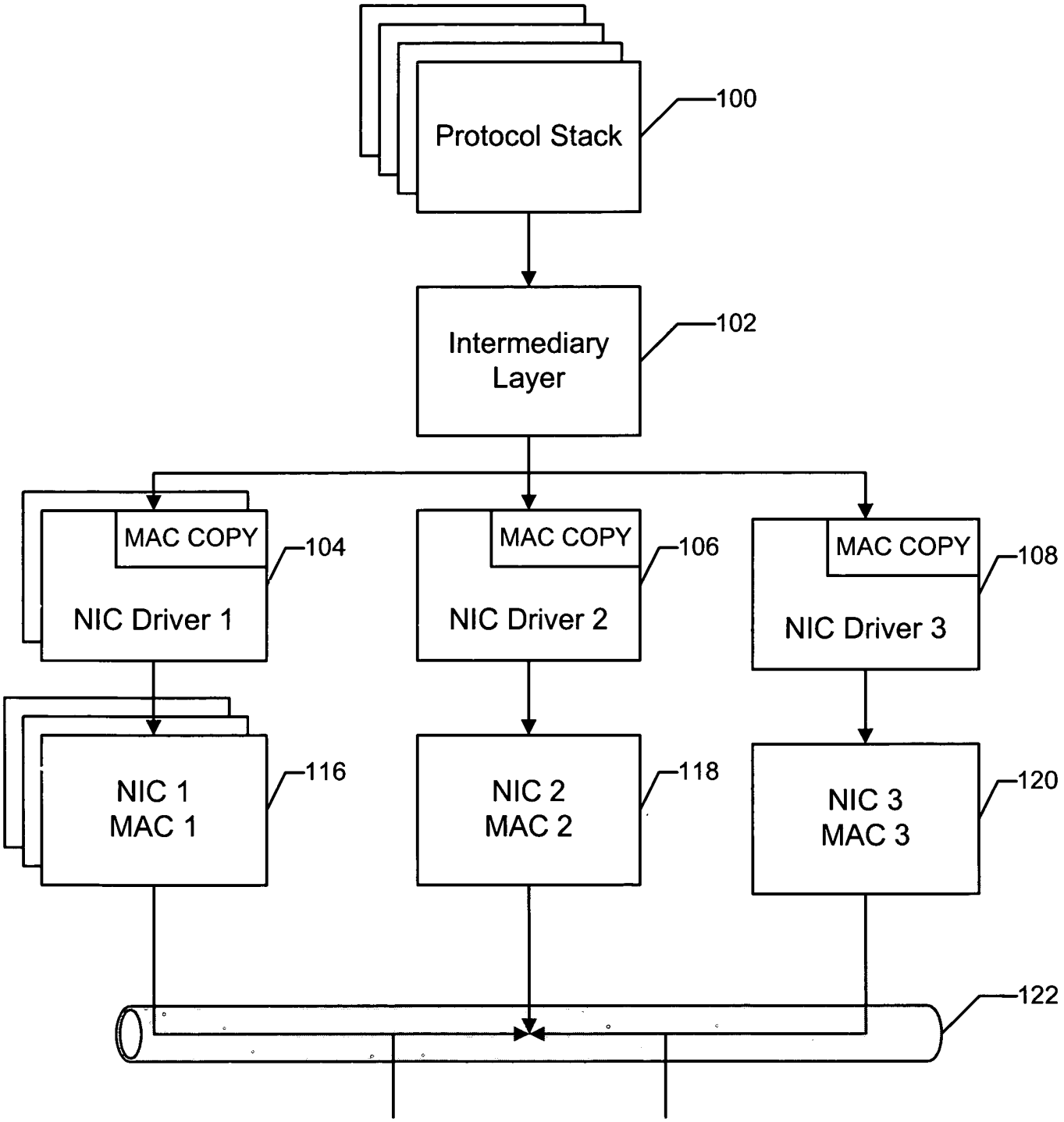

Protocol Stack
100
Intermediary Layer
102
MAC COPY
NIC Driver 1
104
MAC COPY
NIC Driver 2
106
MAC COPY
NIC Driver 3
108
NIC 1
MAC 1
116
NIC 2
MAC 2
118
NIC 3
MAC 3
120
122

FIG. 2

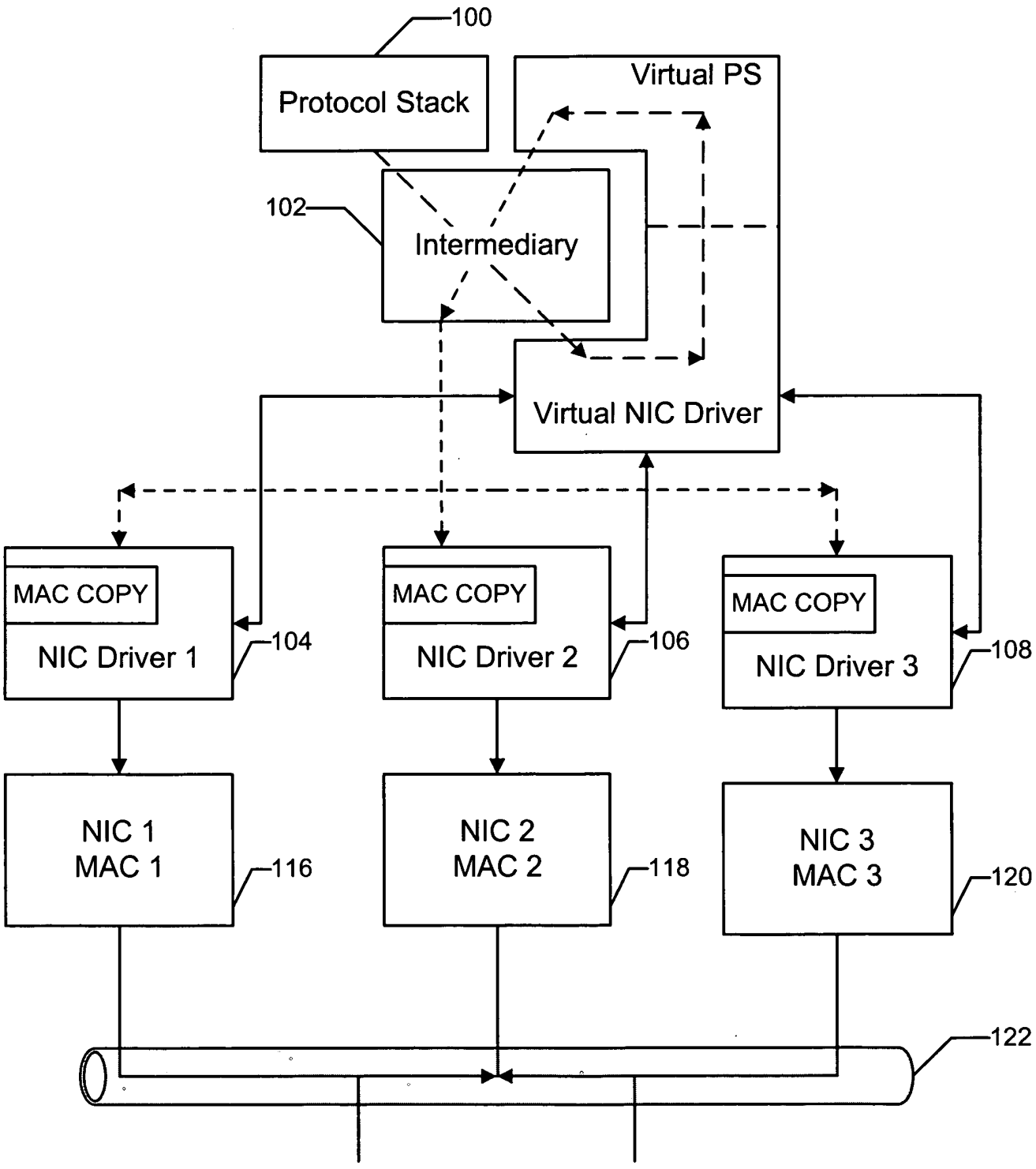

100
Protocol Stack
Virtual PS
102
Intermediary
Virtual NIC Driver
MAC COPY
NIC Driver 1
104
MAC COPY
NIC Driver 2
106
MAC COPY
NIC Driver 3
108
NIC 1
MAC 1
116
NIC 2
MAC 2
118
NIC 3
MAC 3
120
122

FIG. 3

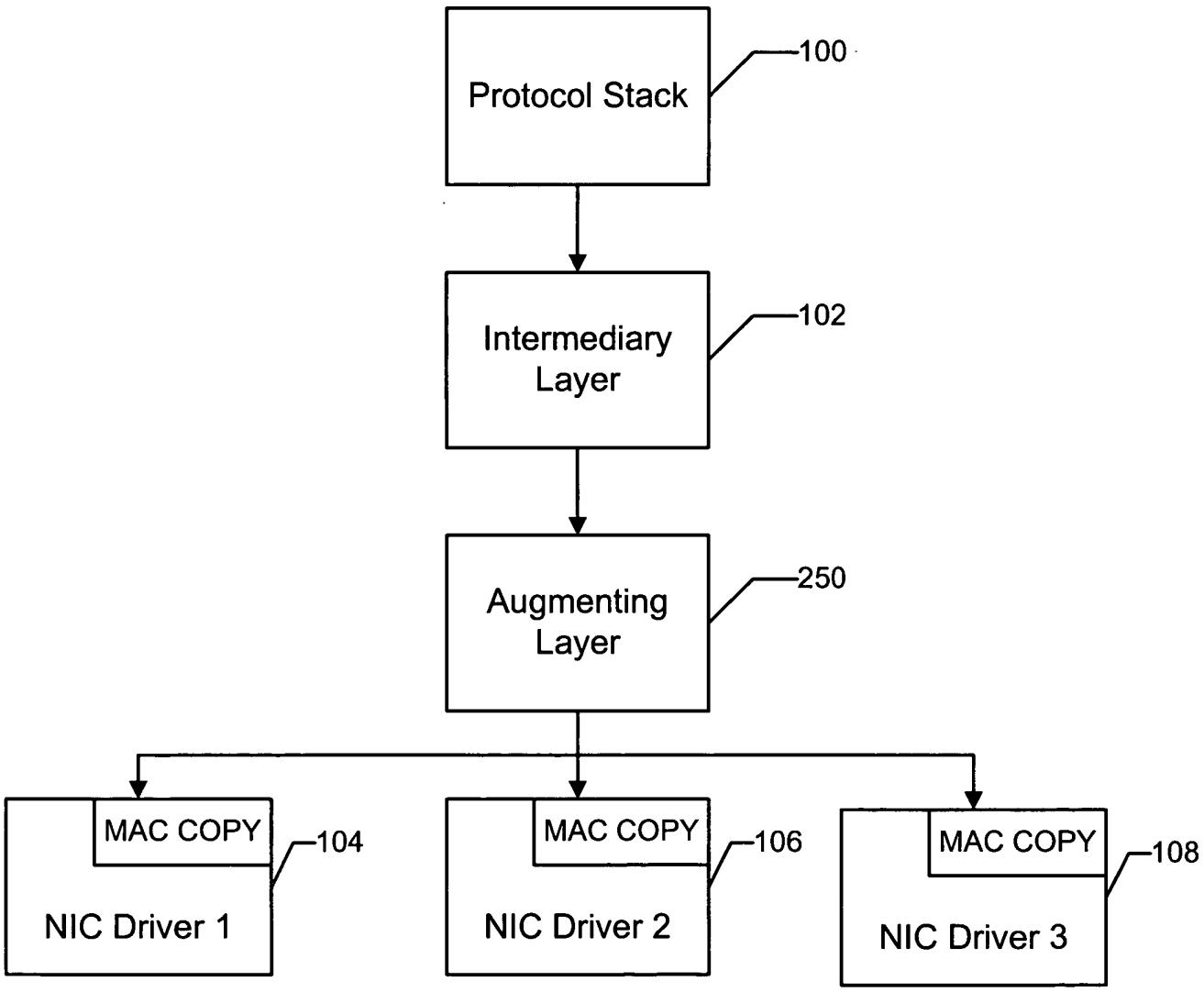

Protocol Stack
100
Intermediary Layer
102
Augmenting Layer
250
MAC COPY
NIC Driver 1
104
MAC COPY
NIC Driver 2
106
MAC COPY
NIC Driver 3
108

FIG. 4

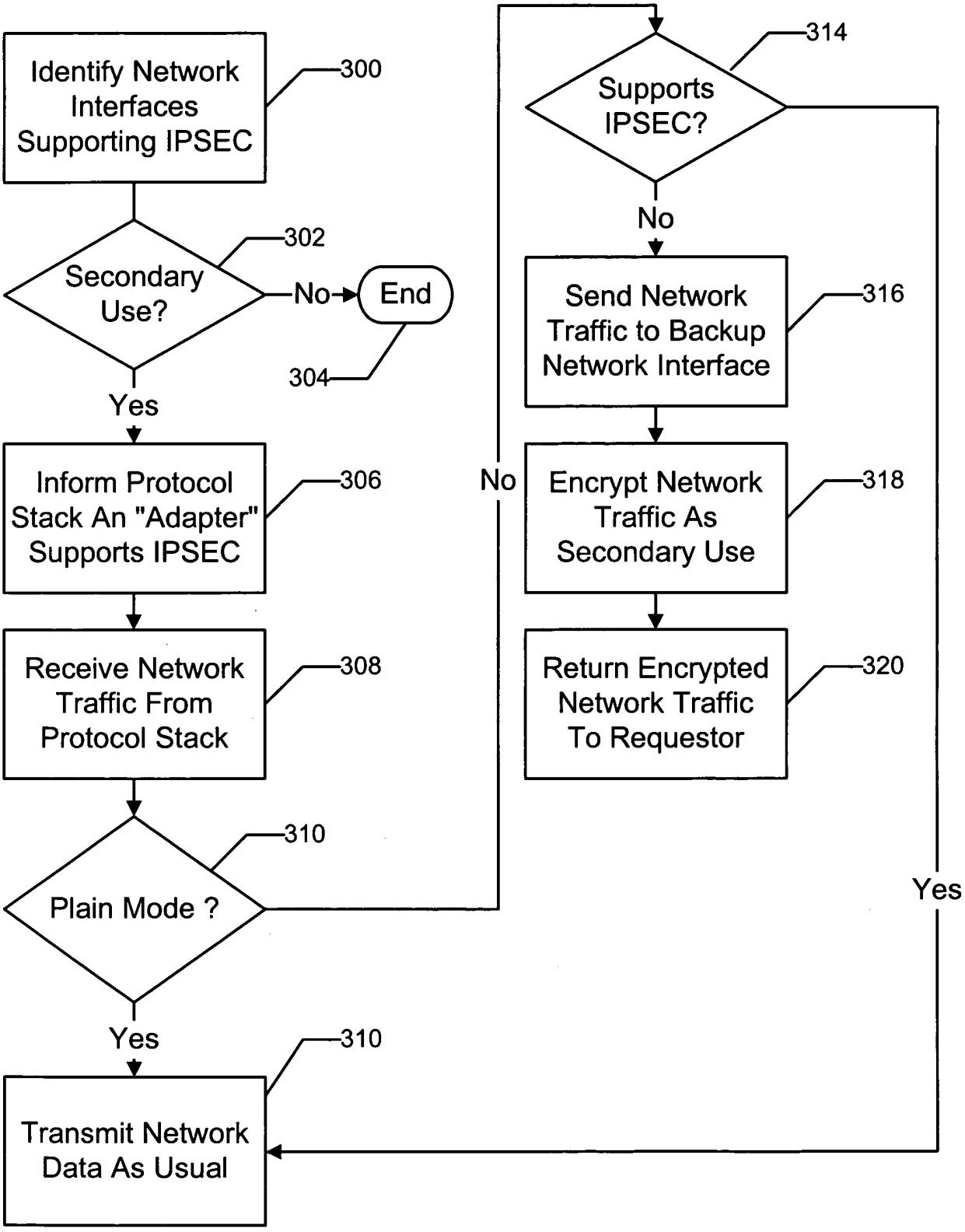

Identify Network Interfaces Supporting IPSEC
300
Secondary Use?
302
No
End
304
Yes
Inform Protocol Stack An "Adapter" Supports IPSEC
306
Receive Network Traffic From Protocol Stack
308
Plain Mode ?
310
Yes
Transmit Network Data As Usual
310
No
Supports IPSEC?
314
No
Send Network Traffic to Backup Network Interface
316
Encrypt Network Traffic As Secondary Use
318
Return Encrypted Network Traffic To Requestor
320
Yes

FIG. 5

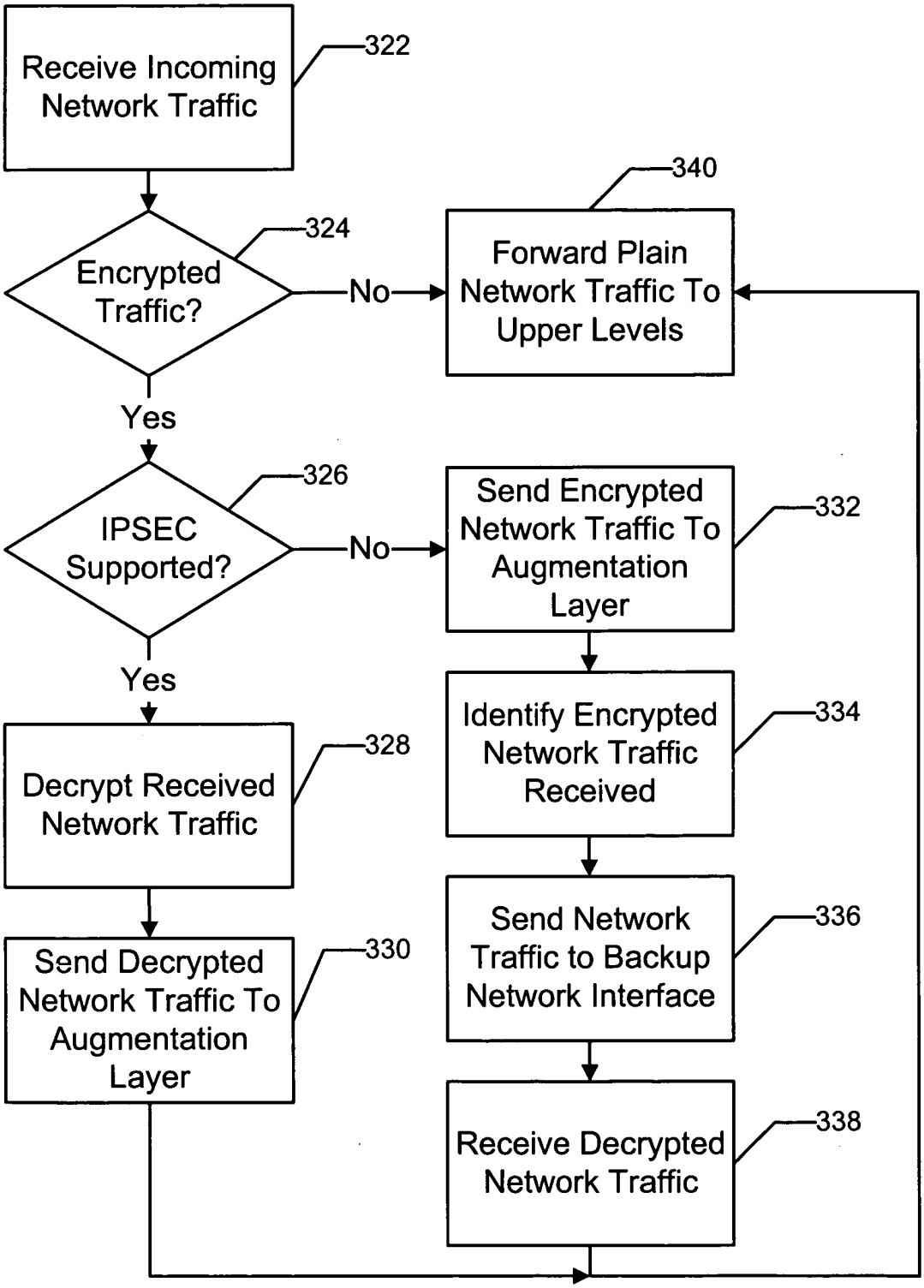

Receive Incoming Network Traffic
322
Encrypted Traffic?
324
No
Forward Plain Network Traffic To Upper Levels
340
Yes
IPSEC Supported?
326
No
Send Encrypted Network Traffic To Augmentation Layer
332
Yes
Identify Encrypted Network Traffic Received
334
Decrypt Received Network Traffic
328
Send Network Traffic to Backup Network Interface
336
Send Decrypted Network Traffic To Augmentation Layer
330
Receive Decrypted Network Traffic
338

FIG. 6

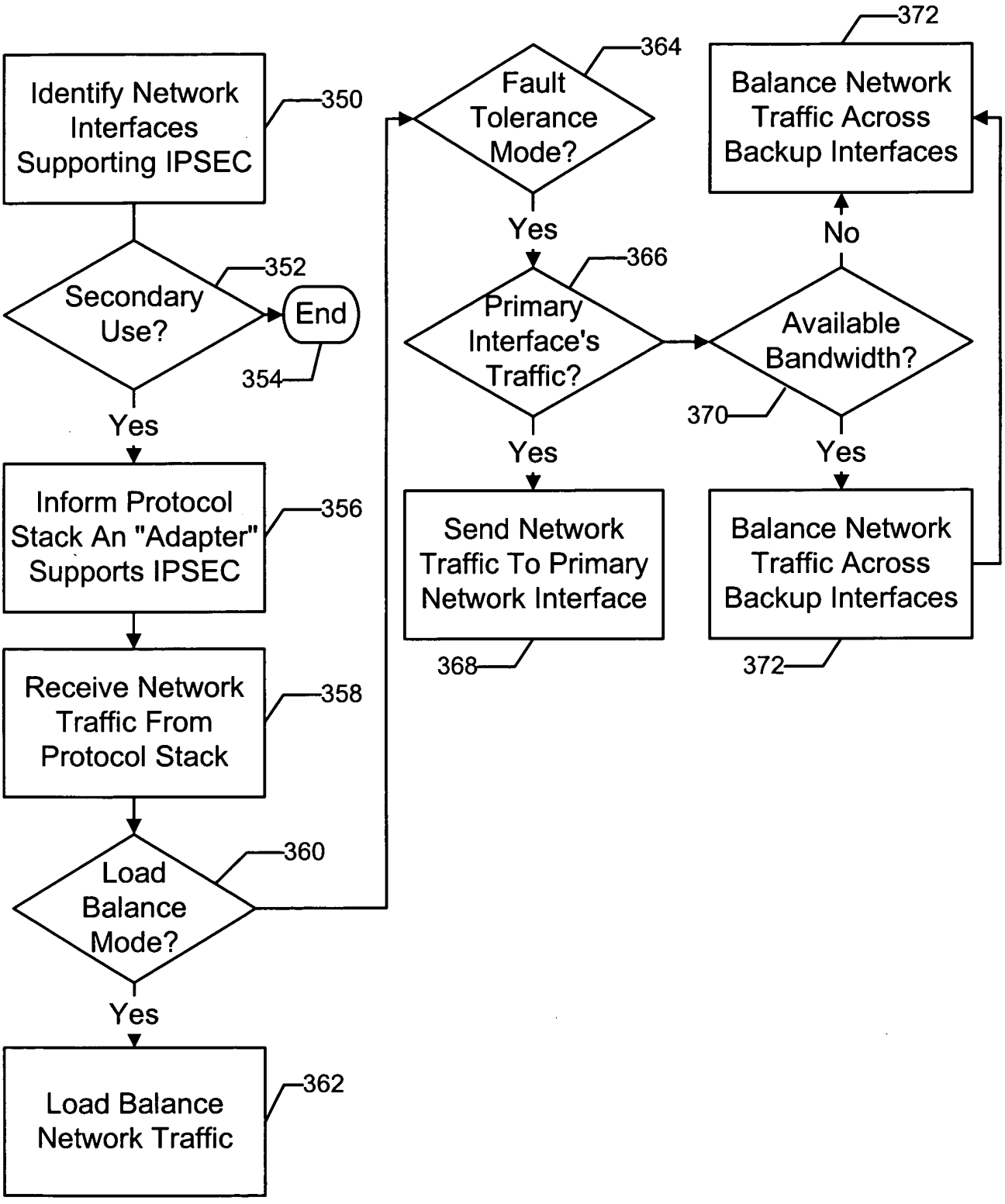
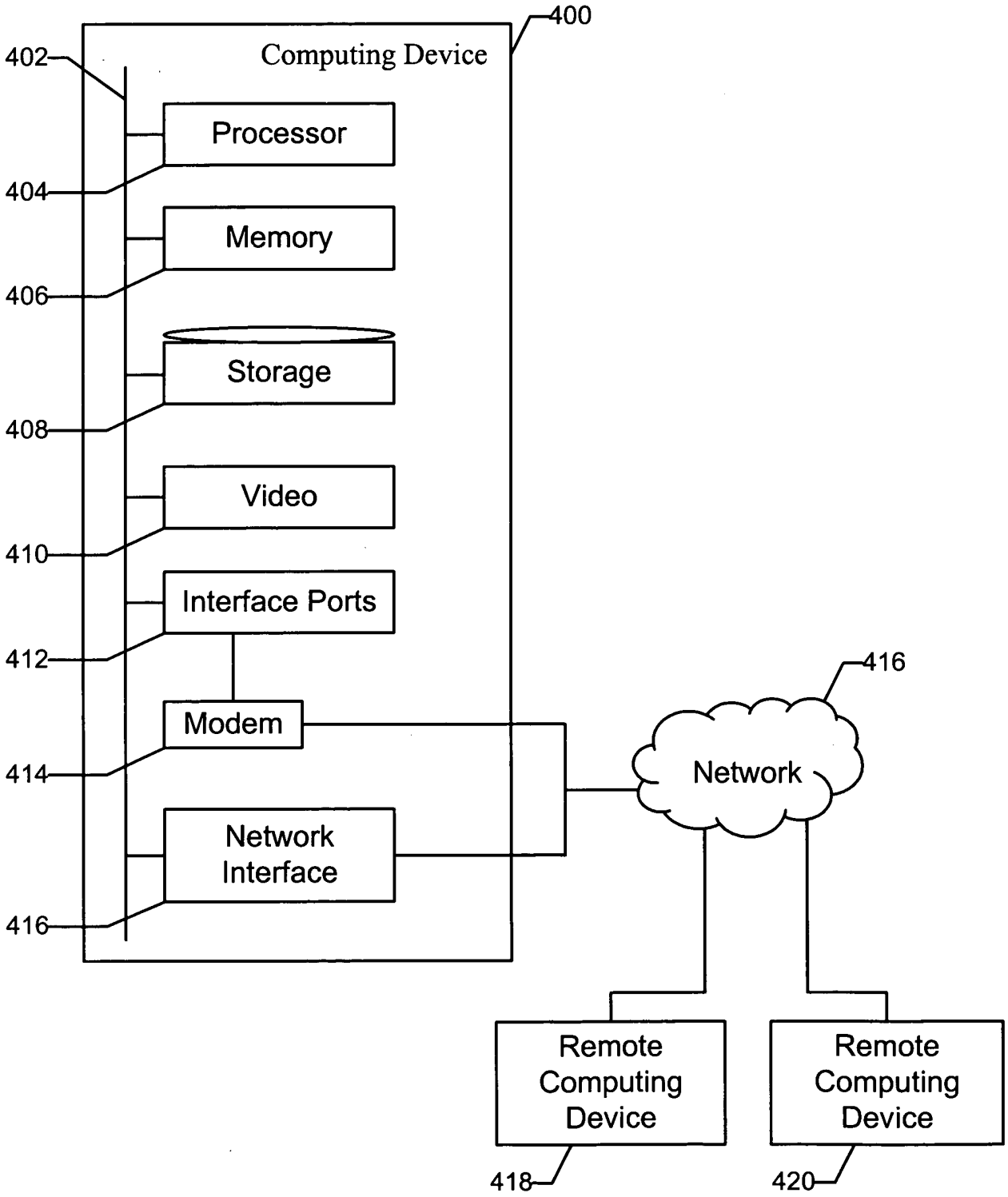

Identify Network Interfaces Supporting IPSEC
350
Secondary Use?
352
End
354
Yes
Inform Protocol Stack An "Adapter" Supports IPSEC
356
Receive Network Traffic From Protocol Stack
358
Load Balance Mode?
360
Yes
Load Balance Network Traffic
362
Fault Tolerance Mode?
364
Yes
Primary Interface's Traffic?
366
Yes
Send Network Traffic To Primary Network Interface
368
Available Bandwidth?
370
No
Balance Network Traffic Across Backup Interfaces
372
Yes
Balance Network Traffic Across Backup Interfaces
372

FIG. 7


400
Computing Device
402
Processor
404
Memory
406
Storage
408
Video
410
Interface Ports
412
Modem
414
Network Interface
416
416
Network
Remote Computing Device
418
Remote Computing Device
420